IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Date: March 19, 2004

DONALD J. LEWIS
JOHN D. RUSSELL and
JOHN O. MICHELINI

Filed

Concurrently with Application

For

IMPROVED MULTI-STROKE CYLINDER OPERATION IN AN

INTERNAL COMBUSTION ENGINE

Mail Stop PATENT APPLICATION Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

<u>INFORMATION DISCLOSURE STATEMENT</u> <u>UNDER 37 C.F.R. §§ 1.56, 1.97, and 1.98</u>

Applicants are submitting this Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98 to disclose to the U.S. Patent and Trademark Office the patents, publications, applications, and/or other references listed on the enclosed, completed PTO-1449 form(s). The filing of this Information Disclosure Statement should not be construed as a representation that a search has been made or as an admission that the listed references are prior art for this application. Applicants respectfully request that the listed references be expressly considered during prosecution of the application, and that the references be made of record therein and appear among the "references cited" on any patents issuing therefrom.

Page 1 – INFORMATION DISCLOSURE STATEMENT . . . FGT 223D1 (81099028)

## CONTENT OF DISCLOSURE

This Information Disclosure Statement includes (1) 6 pages of PTO-1449 forms, and (2) a legible copy of each foreign and non-patent reference, if any, listed on the form(s). However, because this application was filed on or after July 1, 2003, no copies of U.S. patents or published U.S. patent applications are included.

## TIMING OF DISCLOSURE / FEE INFORMATION

This Information Disclosure Statement is being filed with the application or with a Request for Continued Examination of the application under 37 C.F.R. §1.114. Therefore, in accordance with 37 C.F.R. § 1.97(b), no fee or statement under 37 C.F.R. § 1.97(e) is required.

Please contact the undersigned with any questions or comments regarding this Information Disclosure Statement.

"Express Mail" Mailing Label No. EV430434465US Date of Deposit – March 19, 2004

I hereby certify that the attached correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Respectfully submitted,

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Attorney/Agent for Applicant/Assignee

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		U.S. PA	TENT DOCUMENT	'S					141		
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CL	ASS		UB ASS		FIL. DA	
	4,779,528	10-25-88	Bruke								
	4,926,823	5-22-90	Kishi et al							-	
	4,965,741	10-16-90	Cook et al							···	-
	5,236,332	8-17-93	Satou et al						×		
	5,280,770	1-25-94	Satou et al								
	5,422,811	6-6-95	Togai								
	5,515,828	5-14-96	Cook et al								
	5,548,514	8-20-96	Hasegawa et al				•				
	5,600,056	2-4-97	Hasegawa et al							•	
	5,647,312	7-15-97	Salber et al								
	5,669,341	9-23-97	Ushirono et al					·			
		FOREIGN F	ATENT DOCUMEN	NTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CI	LASS	SUI CLA		YES	TRANSLATION YES N		
	S55-49549	4-10-80	JP						<del></del> -		
	S55-29002	3-1-80	JP .								
	1 054 148	5-18-00	EP								
	•	OTHE	R DOCUMENTS			<u> </u>	<u></u>			<del></del>	
	RONALD J. PIE System", SAE T	RIK et al, "Design echnical Paper No.	and Development of a M 2001-01-1221, March 6-	echan 9, 200	ical V	ariabl	le V	alve A	Actua	ition	
	MARTIN PISCH	HINGER et al, "Ber	efits of the Electromecha 1223, March 6-9, 2000, p	nical	Valve		in '	Vehic	le O	peratio	n",
	M.J. VAN NIEU		ir Change Estimation in			gines'	', S <i>i</i>	AE Te	chni	cal Pa	per
KAMINER			DATE CONSIDERED		-						

FORM PTO-1449			DOCKET NUMBER	APPLICATION NUMBER							
	INFORMATION DISCLOSURE CITATION IN AN APPLICATION			APPLICANT(S)							
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		U.S. PAT	ENT DOCUMENT	ΓS			•	<del></del>			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CI	ASS		UB ASS		FIL. DATE F APPROP.	
	5,678,402	10-21-97	Kitagawa et al			·				- 741 KOI.	
	5,743,221	4-28-98	Schmitz								
	5,746,183	5-5-98	Parke et al								
	5,765,514	6-16-98	Sono et al	41	1.						
	5,950,603	9-14-99	Cook et al								
	6,000,376	12-14-99	Hess et al								
	6,023,929	2-15-00	Ма								
	6,039,026	5-21-00	Shiraishi et al								
	6,098,585	8-8-00	Brehob et al								
	6,116,210	9-12-00	Oder et al	•							
	6,138,636	10-31-00	Kohno et al					.			
		FOREIGN PA	ATENT DOCUME	NTS				<del></del>			
	DOCUMENT · NUMBER	DATE	COUNTRY CLA		.ASS	ASS SUB CLASS		TRANSLATION YES N			
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		OTHER	R DOCUMENTS								
	LUCIEN KOOPI Compression Ign September 24-27	ition Mode with Cor	Stroke Camless Engin mmercial Gasoline", SA	e, Ope AE Tec	rated hnica	in Hor l Pape	nog r No	eneo	us Ch 01-01-	arge -3610,	
	WOLFGANG SALBER et al, "Synergies of Variable Valve Actuation and Direct Injection", SAE Technical Paper No. 2002-01-0706, March 4-7, 2002, pp. 1-9								SAE		
·	"Operation of the Control", Manual 95, 104-119, and	- Preliminary Vers	ctuation, Ford EVA Pro ion III, March 21, 2003	oject C , and i	losed in par	Loop	Eng pp.	ine, 9	Syster 2, 80-8	n 34, 89-	
EXAMINER			DATE CONSIDERED	DATE CONSIDERED							

FORM PTO-1449			DOCKET NUMBER APPLICATION NUMBER						
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANT(S)							
			FILING DATE GROUP ART UNIT						
		U.S. PA	TENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	С	LASS	SUB CLASS		. DATE .PPROP.	
	6,219,611	4-17-01	Russell						
	6,247,445	6-19-01	Langer						
	6,276,316	8-21-01	Arai et al					•	
	6,332,446	12-25-01	Matsumoto et al		·				
	6,336,355	1-8-02	Sasaki et al			<del></del>			
	6,341,584	1-29-02	Itoyama et al						
	6,349,541	2-26-02	Gruden et al				•		
	6,374,813	4-23-02	Iida et al		•				
	6,386,156	5-14-02	Stockhausen et al						
	6,390,063	5-21-02	Obata et al						
	6,408,806	6-25-02	Sugiyama et al						
		FOREIGN P	ATENT DOCUMENT	`S	•				
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUE		TRANSLA S	TION NO	
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		U.S. PA	TENT DOCUMENTS	S					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME .		CLASS	SUB CLASS	FIL. DATE IF APPROP.		
	2002/0096139	7-25-02	Zheng						
	6,425,369	7-30-02	Arai et al						
	6,431,129	8-13-02	Hammoud et al		•				
	6,431,130	8-13-02	Leone et al						
	6,443,108	9-3-02	Brehob et al						
	6,453,662	9-24-02	Lewis et al						
	6,453,665	9-24-02	Bower Jr. et al						
•	6,457,465	10-1-02	Lee			·			
	6,474,303	11-5-02	Leone et al						
	6,311,667	11-6-02	Satou et al						
	6,481,201	11-19-02	Kako et al						
		FOREIGN P.	ATENT DOCUMEN	TS					
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION			APPLICANT(S)									
			FILING DATE			GROUP ART UNIT						
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME		CLA	ss	SI.	JB ASS		L. DATI APPROI	
	6,484,677	11-26-02	L	eone et al								
	6,470,853	11-29-02	L	eone et al								
	6,497,093	12-24-02	L	ewis et al	•							
	6,502,389	1-7-03	K	atayama et al								
·	2003/0015026	1-23-03	С	hung								
	6,513,493	2-4-03	R	obichaux et al								
,	6,532,944	3-18-03	L	eone et al								
	6,550,434	4-22-03	L	eone et al								
•	6,557,505	5-6-03	Н	ori				•				
	6,568,177	5-27-03	S	urnilla								
	6,591,605	7-15-03	L	ewis								
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		U.S. PAT	ENT DOCUMENTS	S .							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CLASS	SUB CLASS	. FII	DATE APPROP,			
	6,619,262	9-16-03	Graf et al								
-	6,629,409	10-7-03	Lewis et al								
	6,640,756	11-4-03	Ogiso								
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